DEQ AIR QUALITY PROGRAM
1410 N. Hilton, Boise, ID 83706
For assistance, call the
Air Permit Hotline - 1-877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION
Revision 2
4/5/2007

Please see instructions on page 2 before filling out the form.

Company Name:	**Hoku Materials, Inc**
Facility Name:	Polysilicon Plant
Facility ID No.:	005-00058
Brief Project Description:	Construction of a 4,000 Mton/yr Polysilicon Production Facility

SUMMARY OF FACILITY WIDE EMISSION RATES FOR CRITERIA POLLUTANTS - FUGITIVE SOURCES

1.	2.	3.											
		PM_{10}		SO_2		NO_x		CO		VOC		Lead	
Fugitive Source Name	**Fugitive ID**	**lb/hr**	**T/yr**	**lb/hr**	**T/yr**	**lb/hr**	**T/yr**	**lb/hr**	**T/yr**	**lb/hr**	**T/yr**	**lb/hr**	**T/yr**
Fugitive Source(s)													
Cleaning	13									0.46	2.00		
Name of fugitive source2													
Name of fugitive source3													
Name of fugitive source4													
Name of fugitive source5													
Name of fugitive source6													
Name of fugitive source7													
Name of fugitive source8													
Name of fugitive source9													
Name of fugitive source10													
Name of fugitive source11													
Name of fugitive source12													
Name of fugitive source13													
Name of fugitive source14													
Name of fugitive source15													
Name of fugitive source16													
Name of fugitive source17													
Name of fugitive source18													
Name of fugitive source19													
Name of fugitive source20													
Name of fugitive source21													
(insert more rows as needed)													
Total										0.46	2.00		

	DEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706 For assistance, call the **Air Permit Hotline - 1-877-5PERMIT**	**PERMIT TO CONSTRUCT APPLICATION** Revision 2 4/5/2007

Please see instructions on page 2 before filling out the form.

Company Name:	**Hoku Materials, Inc**
Facility Name:	Polysilicon Plant
Facility ID No.:	005-00058
Brief Project Description:	Construction of a 4,000 Mton/yr Polysilicon Production Facility

SUMMARY OF FACILITY WIDE EMISSION RATES FOR CRITERIA POLLUTANTS - FUGITIVE SOURCES

1.	2.	3.											
		PM_{10}		SO_2		NO_X		CO		VOC		Lead	
Fugitive Source Name	**Fugitive ID**	**lb/hr**	**T/yr**	**lb/hr**	**T/yr**	**lb/hr**	**T/yr**	**lb/hr**	**T/yr**	**lb/hr**	**T/yr**	**lb/hr**	**T/yr**
Fugitive Source(s)													

Instructions for Form EI-CP2

This form is designed to provide the permit writer and air quality modeler with a summary of the criteria pollutant emissions of each emission unit/point located at the facility. This information may be used by the IDEQ to perform an air quality analysis or to review an air quality analysis submitted with the permit application or requested by the IDEQ.

Please fill in the same company name, facility name, facility ID number, and brief project description as on form CS in the boxes provided. This is useful in case any pages of the application get separated.

Fugitive emissions are those emissions that cannot reasonably be made to pass through a stack or vent or equivalent opening. Examples include coal piles, unpaved roads, etc. Fugitive emission sources at your plant must be included in this form.

1. Provide the name of all fugitive sources at the facility. This name must match names on other submittals to IDEQ and within this application.

2. Provide the identification number for the fugitive source. This ID number should match ID numbers on other submittals to IDEQ and within this application.

3. Provide the emission rate in pounds per hour and tons per year for all criteria pollutants emitted by this fugitive source. In this form, emission rates for a fugitive source are the maximum allowable emissions for both short term (pounds per hour) and long term (tons per year). These emission rates are its permitted limits (if any). Otherwise, potential to emit should be shown. Potential to emit is defined as uncontrolled emissions at maximum design or achievable capacity (whichever is higher) and year-round continuous operation (8760 hours per year) if there are no federally enforceable permit limits on the emission point. If the emission point has or will have control equipment or some other proposed permit limitation such as hours of operation or material usage, then, the control efficiency or proposed permit limit(s) may be used in calculating potential to emit.

NOTE: Attach a separate sheet of paper, or electronic file, to provide additional documentation on the development of the emission rates. Documentation can include emissions factors, throughput, and example calculations.

DEQ AIR QUALITY PROGRAM
1410 N. Hilton, Boise, ID 83706
For assistance, call the
Air Permit Hotline - 1-877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION
Revision 3
4/5/2007

Please see instructions on page 2 before filling out the form.

Company Name:	**Hoku Materials, Inc**
Facility Name:	Polysilicon Plant
Facility ID No.:	005-00058
Brief Project Description:	Construction of a 4,000 Mton/yr Polysilicon Production Facility

SUMMARY OF EMISSIONS INCREASE (PROPOSED PTE - PREVIOUSLY MODELED PTE) - POINT SOURCES

1.	2.	3.											
		PM_{10}		SO_2		NO_X		CO		VOC		Lead	
Emissions units	**Stack ID**	**lb/hr**	**T/yr**	**lb/hr**	**T/yr**	**lb/hr**	**T/yr**	**lb/hr**	**T/yr**	**lb/hr**	**T/yr**	**lb/hr**	**T/yr**
Point Source(s)													
Boiler	1	0.11	0.48	0.01	0.04	1.43	6.26	1.20	5.26	0.08	0.34	0.00	0.00
Hot Oil Heater	2	0.11	0.48	0.01	0.04	1.43	6.26	1.20	5.26	0.08	0.34	0.00	0.00
M.G. Silicon Bin Vent	3	0.05	0.22										
M.G. Silicon Primary Hopper	4	0.01	0.04										
M.G. Silicon Secondary Hopper	5	0.01	0.04										
Lime Storage Silo	6	0.19	0.34										
Cooling Tower	7	0.74	3.22										
Laboratory Venting System	8	0.05	0.20	0.05	0.20	0.28	1.20						
Chlorosilane Venting System	9	0.69	3.01										
Relief Vent System	10	0.27	1.20										
Emergency Generator	11	0.94	0.23	5.42	1.35	32.16	8.04	7.37	1.84	0.96	0.23		
Fire Water Pump	12	0.66	0.17	0.61	0.15	9.30	2.33	2.00	0.50	0.74	0.18		
Name of the emissions unit13													
Name of the emissions unit14													
Name of the emissions unit15													
Name of the emissions unit16													
Name of the emissions unit17													
Name of the emissions unit18													
Name of the emissions unit19													
Name of the emissions unit20													
Name of the emissions unit21													
(Insert more rows as needed)													
Total		3.81	9.61	6.10	1.78	44.60	24.08	11.77	12.86	1.85	1.11	0.00	0.00

	DEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706 For assistance, call the **Air Permit Hotline - 1-877-5PERMIT**	**PERMIT TO CONSTRUCT APPLICATION** Revision 3 4/5/2007

Please see instructions on page 2 before filling out the form.

Company Name:	**Hoku Materials, Inc**
Facility Name:	Polysilicon Plant
Facility ID No.:	005-00058
Brief Project Description:	Construction of a 4,000 Mton/yr Polysilicon Production Facility

SUMMARY OF EMISSIONS INCREASE (PROPOSED PTE - PREVIOUSLY MODELED PTE) - POINT SOURCES

1.	2.	3.											
		PM_{10}		SO_2		NO_X		CO		VOC		Lead	
Emissions units	**Stack ID**	**lb/hr**	**T/yr**	**lb/hr**	**T/yr**	**lb/hr**	**T/yr**	**lb/hr**	**T/yr**	**lb/hr**	**T/yr**	**lb/hr**	**T/yr**
Point Source(s)													

Instructions for Form EI-CP3

This form is designed to provide the permit writer and air quality modeler with a summary of the change in criteria pollutant emissions of each emission unit/point associated with this permit application. This information may be used by the IDEQ to perfo

Please fill in the same company name, facility name, facility ID number, and brief project description as on form CS in the boxes provided. This is useful in case any pages of the application get separated.

1. Provide the name of the emission unit. This name should match names on other submittals to IDEQ and within this application.

2. Provide the identification number for the stack which the emission unit exits.

3. Provide the increase in emissions in pounds per hour and tons per year for all criteria pollutants emitted by this emission unit. In this form, increase in emissions for an emission unit are the proposed PTE - Previously modeled PTE. If the emis

NOTE: Attach a separate sheet of paper, or electronic file, to provide additional documentation on the development of the emission rates. Documentation can include emissions factors, throughput, and example calculations.

DEQ AIR QUALITY PROGRAM
1410 N. Hilton, Boise, ID 83706
For assistance, call the
Air Permit Hotline - 1-877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION
Revision 3
4/5/2007

Please see instructions on page 2 before filling out the form.

Company Name:	**Hoku Materials, Inc**
Facility Name:	Polysilicon Plant
Facility ID No.:	005-00058
Brief Project Description:	Construction of a 4,000 Mton/yr Polysilicon Production Facility

SUMMARY OF EMISSIONS INCREASE (PROPOSED PTE - PREVIOUSLY MODELED PTE) - FUGITIVE SOURCES

1.	2.	3. Air Pollutant Maximum Change in Emissions Rate (lbs/hr or t/yr)											
		PM_{10}		SO_2		NO_X		CO		VOC		Lead	
Fugitive Source Name	**Fugitive ID**	**lb/hr**	**T/yr**	**lb/hr**	**T/yr**	**lb/hr**	**T/yr**	**lb/hr**	**T/yr**	**lb/hr**	**T/yr**	**lb/hr**	**T/yr**
Fugitive Source(s)													
Cleaning	13									0.23	1.00		
Name of fugitive source2													
Name of fugitive source3													
Name of fugitive source4													
Name of fugitive source5													
Name of fugitive source6													
Name of fugitive source7													
Name of fugitive source8													
Name of fugitive source9													
Name of fugitive source10													
Name of fugitive source11													
Name of fugitive source12													
Name of fugitive source13													
Name of fugitive source14													
Name of fugitive source15													
Name of fugitive source16													
Name of fugitive source17													
Name of fugitive source18													
Name of fugitive source19													
Name of fugitive source20													
Name of fugitive source21													
(insert more rows as needed)													
Total										0.23	1.00		

DEQ AIR QUALITY PROGRAM
1410 N. Hilton, Boise, ID 83706
For assistance, call the
Air Permit Hotline - 1-877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION
Revision 3
4/5/2007

Please see instructions on page 2 before filling out the form.

Company Name:	**Hoku Materials, Inc**
Facility Name:	Polysilicon Plant
Facility ID No.:	005-00058
Brief Project Description:	Construction of a 4,000 Mton/yr Polysilicon Production Facility

SUMMARY OF EMISSIONS INCREASE (PROPOSED PTE - PREVIOUSLY MODELED PTE) - FUGITIVE SOURCES

1.	2.	3. Air Pollutant Maximum Change in Emissions Rate (lbs/hr or t/yr)											
		PM_{10}		SO_2		NO_X		CO		VOC		Lead	
Fugitive Source Name	**Fugitive ID**	**lb/hr**	**T/yr**	**lb/hr**	**T/yr**	**lb/hr**	**T/yr**	**lb/hr**	**T/yr**	**lb/hr**	**T/yr**	**lb/hr**	**T/yr**
Fugitive Source(s)													

Instructions for Form EI-CP4

This form is designed to provide the permit writer and air quality modeler with a summary of the change in criteria pollutant emissions of each emission unit/point associated with this permit application. This information may be used by the IDEQ to perform an air quality analysis or to review an air quality analysis submitted with the permit application or requested by the IDEQ.

Please fill in the same company name, facility name, facility ID Number, and brief project description as on Form CS in the boxes provided. This is useful in case any pages of the application get separated.

. Provide the name of the emission unit. This name should match names on other submittals to IDEQ and within this application.

2. Provide the identification number for the fugitive source. This ID should match IDs on other submittals to IDEQ and within this application.

3. Provide the increase in emissions in pounds per hour and tons per year for all criteria pollutants emitted by this fugitive source. In this form, increase in emissions for an emission unit are the proposed PTE - Previously modeled PTE. If the fugitive source has or will have control equipment or some other proposed permit limitation such as hours of operation or material usage, the control efficiency or proposed permit limit(s) may be used in calculating proposed potential to emit.

NOTE: Attach a separate sheet of paper, or electronic file, to provide additional documentation on the development of the emission rates. Documentation can include emissions factors, throughput, and example calculations.

DEQ AIR QUALITY PROGRAM
1410 N. Hilton, Boise, ID 83706
For assistance, call the
Air Permit Hotline – 1-877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION

Revision 3
03/26/07

Please see instructions on page 2 before filling out the form.

IDENTIFICATION			
Company Name:	Hoku Materials, Inc.	**Facility Name:** Polysilicon Plant	**Facility ID No.:** 005-00058
Brief Project Description:	Construction of a 4,000 Mton/yr Polysilicon Production Facility		

IDENTIFICATION				SCRUBBER					
1.	2.	3.	4.	5.	6.	7.	8.	9	10.
Emission Unit	EU ID No.	CE ID No.	Stack ID No.	Manufacturer Name	Model No.	Type	Dimensions In Feet (Ht x Dia x L)	Water Flow (gpm)	Pressure Drop (in H_2O)
Lab Scrubber	**8**	**8**	**8**	**TBD**	**TBD**	**Venturi and/or Spray Chamber**	**TBD**	**TBD**	**TBD**
Chlorosilane Scrubber	**9**	**9**	**9**	**TBD**	**TBD**	**Venturi and/or Spray Chamber**	**TBD**	**TBD**	**TBD**
Relief Vent Scrubber	**10**	**10**	**10**	**TBD**	**TBD**	**Venturi and/or Spray Chamber**	**TBD**	**TBD**	**TBD**

DEQ AIR QUALITY PROGRAM
1410 N. Hilton, Boise, ID 83706
For assistance, call the
Air Permit Hotline – 1-877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION

Revision 3
04/02/07

Please see instructions on page 2 before filling out the form.

IDENTIFICATION		
Company Name: Hoku Materials, Inc. Proj Description: Construction of a 4,000 Mton/yr Polysilicon Production Facility	**Facility Name:** Polysilicon Plant	**Facility ID No.:** 005-00058
Brief Project Description:		

IDENTIFICATION				BAGHOUSE			BAGS			
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
Emission Unit	EU ID No.	CE ID No.	Stack ID No.	Baghouse Manufacturer	Baghouse Model No.	Type	Type	Size (Dia x Ht)	No. of Bags	Air to Cloth
M.G. Silicon Bin Vent	3	3	3	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Lime Storage Silo	6	6	6	TBD	TBD	TBD	TBD	TBD	TBD	TBD

Emissions Unit - General **Form EU0**

DEQ AIR QUALITY PROGRAM
1410 N. Hilton, Boise, ID 83706
For assistance, call the
Air Permit Hotline – 1-877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION

Revision 3
03/27/07

Please see instructions on page 2 before filling out the form.

IDENTIFICATION

Company Name:	Facility Name:	Facility ID No:
Hoku Materials, Inc.	Polysilicon Plant	005-00058
Brief Project Description:	Construction of a 4,000 Mton/yr Polysilicon Production Facility	

EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION

1. Emissions Unit (EU) Name:	CHLOROSILANE VENTING SYSTEM
2. EU ID Number:	9
3. EU Type:	☐ New Source ☐ Unpermitted Existing Source ☒ Modification to a Permitted Source -- Previous Permit #:P-2007-0075 Date Issued: 8/14/07
4. Manufacturer:	TBD
5. Model:	TBD
6. Maximum Capacity:	TBD
7. Date of Construction:	MAY 1, 2008
8. Date of Modification (if any)	MAY 1, 2008
9. Is this a Controlled Emission Unit?	☐ No ☒ Yes If Yes, complete the following section. If No, go to line 18.

EMISSIONS CONTROL EQUIPMENT

10. Control Equipment Name and ID:	Chlorosilane Scrubber CE ID No:9☐		
11. Date of Installation:	8/14/07	12. Date of Modification (if any):	May 1, 2008
13. Manufacturer and Model Number:	TBD		
14. ID(s) of Emission Unit Controlled:	9-Chlorosilane Venting System		
15. Is operating schedule different than emission units(s) involved?	☐ Yes ☒ No		
16. Does the manufacturer guarantee the control efficiency of the control equipment?	☐ Yes ☒ No (If Yes, attach and label manufacturer guarantee)		

	Pollutant Controlled					
	PM	PM10	SO_2	NOx	VOC	CO
Control Efficiency						

17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency.

EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)

18. Actual Operation	8,760 HR/YR
19. Maximum Operation	8,760 hr/yr

REQUESTED LIMITS

20. Are you requesting any permit limits?	☐ Yes ☒ No (If Yes, check all that apply below)
☐ Operation Hour Limit(s):	
☐ Production Limit(s):	
☐ Material Usage Limit(s):	
☐ Limits Based on Stack Testing	Please attach all relevant stack testing summary reports
☐ Other:	
21. Rationale for Requesting the Limit(s):	

Emissions Unit - General **Form EU0**

DEQ AIR QUALITY PROGRAM
1410 N. Hilton, Boise, ID 83706
For assistance, call the
Air Permit Hotline – 1-877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION

Revision 3
03/27/07

Please see instructions on page 2 before filling out the form.

IDENTIFICATION

Company Name:	Facility Name:	Facility ID No:
Hoku Materials, Inc.	Polysilicon Plant	005-00058
Brief Project Description:	Construction of a 4,000 Mton/yr Polysilicon Production Facility	

EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION

1. Emissions Unit (EU) Name:	CHLOROSILANE VENTING SYSTEM
2. EU ID Number:	9
3. EU Type:	☐ New Source ☐ Unpermitted Existing Source ☒ Modification to a Permitted Source -- Previous Permit #:P-2007-0075 Date Issued: 8/14/07
4. Manufacturer:	TBD
5. Model:	TBD
6. Maximum Capacity:	TBD
7. Date of Construction:	MAY 1, 2008
8. Date of Modification (if any)	MAY 1, 2008
9. Is this a Controlled Emission Unit?	☐ No ☒ Yes If Yes, complete the following section. If No, go to line 18.

EMISSIONS CONTROL EQUIPMENT

10. Control Equipment Name and ID:	Lab Scrubber CE ID No:8□		
11. Date of Installation:	8/14/07	12. Date of Modification (if any):	May 1, 2008
13. Manufacturer and Model Number:	TBD		
14. ID(s) of Emission Unit Controlled:	8- Laboratory Venting System		
15. Is operating schedule different than emission units(s) involved?	☐ Yes ☒ No		
16. Does the manufacturer guarantee the control efficiency of the control equipment?	☐ Yes ☒ No (If Yes, attach and label manufacturer guarantee)		

	Pollutant Controlled					
	PM	PM10	SO_2	NOx	VOC	CO
Control Efficiency						

17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency.

EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)

18. Actual Operation	8,760 HR/YR
19. Maximum Operation	8,760 hr/yr

REQUESTED LIMITS

20. Are you requesting any permit limits?	☐ Yes ☒ No (If Yes, check all that apply below)
☐ Operation Hour Limit(s):	
☐ Production Limit(s):	
☐ Material Usage Limit(s):	
☐ Limits Based on Stack Testing	Please attach all relevant stack testing summary reports
☐ Other:	
21. Rationale for Requesting the Limit(s):	

Emissions Unit - General **Form EU0**

DEQ AIR QUALITY PROGRAM
1410 N. Hilton, Boise, ID 83706
For assistance, call the
Air Permit Hotline – 1-877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION

Revision 3
03/27/07

Please see instructions on page 2 before filling out the form.

IDENTIFICATION

Company Name:	Facility Name:	Facility ID No:
Hoku Materials, Inc.	Polysilicon Plant	005-00058
Brief Project Description:	Construction of a 4,000 Mton/yr Polysilicon Production Facility	

EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION

1. Emissions Unit (EU) Name:	Lime Storage Silo
2. EU ID Number:	6
3. EU Type:	☐ New Source ☐ Unpermitted Existing Source ☒ Modification to a Permitted Source -- Previous Permit #:P-2007-0075 Date Issued: 8/14/07
4. Manufacturer:	TBD
5. Model:	TBD
6. Maximum Capacity:	900 CU. FT.
7. Date of Construction:	5/1/08
8. Date of Modification (if any)	MAY 1, 2008
9. Is this a Controlled Emission Unit?	☐ No ☒ Yes If Yes, complete the following section. If No, go to line 18.

EMISSIONS CONTROL EQUIPMENT

10. Control Equipment Name and ID:	Lime Storage Silo Baghouse CE ID No:6		
11. Date of Installation:	5/1/08	12. Date of Modification (if any):	May 1, 2008
13. Manufacturer and Model Number:	TBD		
14. ID(s) of Emission Unit Controlled:	6- Lime Storage Silo		
15. Is operating schedule different than emission units(s) involved?	☐ Yes ☒ No		
16. Does the manufacturer guarantee the control efficiency of the control equipment?	☐ Yes ☒ No (If Yes, attach and label manufacturer guarantee)		

	Pollutant Controlled					
	PM	PM10	SO_2	NOx	VOC	CO
Control Efficiency	0.02 gr/dscf	0.02 gr/dscf				

17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency. Equipment selected will meet above mentioned control efficiency

EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)

18. Actual Operation	8,760 HR/YR
19. Maximum Operation	8,760 hr/yr

REQUESTED LIMITS

20. Are you requesting any permit limits?	☐ Yes ☒ No (If Yes, check all that apply below)
☐ Operation Hour Limit(s):	
☐ Production Limit(s):	
☐ Material Usage Limit(s):	
☐ Limits Based on Stack Testing	Please attach all relevant stack testing summary reports
☐ Other:	
21. Rationale for Requesting the Limit(s):	

Emissions Unit - General **Form EU0**

DEQ AIR QUALITY PROGRAM
1410 N. Hilton, Boise, ID 83706
For assistance, call the
Air Permit Hotline – 1-877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION

Revision 3
03/27/07

Please see instructions on page 2 before filling out the form.

IDENTIFICATION

Company Name:	Facility Name:	Facility ID No:
Hoku Materials, Inc.	Polysilicon Plant	005-00058
Brief Project Description:	Construction of a 4,000 Mton/yr Polysilicon Production Facility	

EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION

1. Emissions Unit (EU) Name:	CHLOROSILANE VENTING SYSTEM
2. EU ID Number:	9
3. EU Type:	☐ New Source ☐ Unpermitted Existing Source ☒ Modification to a Permitted Source -- Previous Permit #:P-2007-0075 Date Issued: 8/14/07
4. Manufacturer:	TBD
5. Model:	TBD
6. Maximum Capacity:	TBD
7. Date of Construction:	MAY 1, 2008
8. Date of Modification (if any)	MAY 1, 2008
9. Is this a Controlled Emission Unit?	☐ No ☒ Yes If Yes, complete the following section. If No, go to line 18.

EMISSIONS CONTROL EQUIPMENT

10. Control Equipment Name and ID:	Relief Vent Scrubber CE ID No:10		
11. Date of Installation:	8/14/07	12. Date of Modification (if any):	May 1, 2008
13. Manufacturer and Model Number:	TBD		
14. ID(s) of Emission Unit Controlled:	10-Relief Vent System		
15. Is operating schedule different than emission units(s) involved?	☐ Yes ☒ No		
16. Does the manufacturer guarantee the control efficiency of the control equipment?	☐ Yes ☒ No (If Yes, attach and label manufacturer guarantee)		

	Pollutant Controlled					
	PM	PM10	SO_2	NOx	VOC	CO
Control Efficiency						

17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency.

EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)

18. Actual Operation	8,760 HR/YR
19. Maximum Operation	8,760 hr/yr

REQUESTED LIMITS

20. Are you requesting any permit limits?	☐ Yes ☒ No (If Yes, check all that apply below)
☐ Operation Hour Limit(s):	
☐ Production Limit(s):	
☐ Material Usage Limit(s):	
☐ Limits Based on Stack Testing	Please attach all relevant stack testing summary reports
☐ Other:	
21. Rationale for Requesting the Limit(s):	

Emissions Unit - General **Form EU0**

DEQ AIR QUALITY PROGRAM
1410 N. Hilton, Boise, ID 83706
For assistance, call the
Air Permit Hotline – 1-877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION

Revision 3
03/27/07

Please see instructions on page 2 before filling out the form.

IDENTIFICATION

Company Name:	Facility Name:	Facility ID No:
Hoku Materials, Inc.	Polysilicon Plant	005-00058
Brief Project Description:	Construction of a 4,000 Mton/yr Polysilicon Production Facility	

EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION

1. Emissions Unit (EU) Name:	M.G. Silicon Bin
2. EU ID Number:	3
3. EU Type:	☐ New Source ☐ Unpermitted Existing Source ☒ Modification to a Permitted Source -- Previous Permit #:P-2007-0075 Date Issued: 8/14/07
4. Manufacturer:	TBD
5. Model:	TBD
6. Maximum Capacity:	250 CU. FT.
7. Date of Construction:	5/1/08
8. Date of Modification (if any)	MAY 1, 2008
9. Is this a Controlled Emission Unit?	☐ No ☒ Yes If Yes, complete the following section. If No, go to line 18.

EMISSIONS CONTROL EQUIPMENT

10. Control Equipment Name and ID:	M.G. Silicon Bin Vent Baghouse CE ID No:3		
11. Date of Installation:	5/1/08	12. Date of Modification (if any):	May 1, 2008
13. Manufacturer and Model Number:	TBD		
14. ID(s) of Emission Unit Controlled:	3- M.G. Silicon Bin		
15. Is operating schedule different than emission units(s) involved?	☐ Yes ☒ No		
16. Does the manufacturer guarantee the control efficiency of the control equipment?	☐ Yes ☒ No (If Yes, attach and label manufacturer guarantee)		

	Pollutant Controlled					
	PM	PM10	SO_2	NOx	VOC	CO
Control Efficiency	0.02 gr/dscf	0.02 gr/dscf				

17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency. Equipment selected will meet above mentioned control efficiency

EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)

18. Actual Operation	8,760 HR/YR
19. Maximum Operation	8,760 hr/yr

REQUESTED LIMITS

20. Are you requesting any permit limits?	☐ Yes ☒ No (If Yes, check all that apply below)
☐ Operation Hour Limit(s):	
☐ Production Limit(s):	
☐ Material Usage Limit(s):	
☐ Limits Based on Stack Testing	Please attach all relevant stack testing summary reports
☐ Other:	
21. Rationale for Requesting the Limit(s):	

Emissions Unit - General **Form EU0**

PERMIT TO CONSTRUCT APPLICATION

Revision 3
03/27/07

DEQ AIR QUALITY PROGRAM
1410 N. Hilton, Boise, ID 83706
For assistance, call the
Air Permit Hotline – 1-877-5PERMIT

Please see instructions on page 2 before filling out the form.

IDENTIFICATION

Company Name:	Facility Name:	Facility ID No:
Hoku Materials, Inc.	Polysilicon Plant	005-00058
Brief Project Description:	Construction of a 4,000 Mton/yr Polysilicon Production Facility	

EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION

1. Emissions Unit (EU) Name:	M.G. SILICON PRIMARY HOPPER
2. EU ID Number:	4
3. EU Type:	☐ New Source ☐ Unpermitted Existing Source ☒ Modification to a Permitted Source -- Previous Permit #:P-2007-0075 Date Issued: 8/14/07
4. Manufacturer:	TBD
5. Model:	TBD
6. Maximum Capacity:	15 CU. FT.
7. Date of Construction:	5/1/08
8. Date of Modification (if any)	MAY 1, 2008
9. Is this a Controlled Emission Unit?	☐ No ☒ Yes If Yes, complete the following section. If No, go to line 18.

EMISSIONS CONTROL EQUIPMENT

10. Control Equipment Name and ID:	M.G. Silicon Primary Hopper Filter CE ID No:4		
11. Date of Installation:	5/1/08	12. Date of Modification (if any):	May 1, 2008
13. Manufacturer and Model Number:	TBD		
14. ID(s) of Emission Unit Controlled:	4- M.G. Silicon Primary Hopper		
15. Is operating schedule different than emission units(s) involved?	☐ Yes ☒ No		
16. Does the manufacturer guarantee the control efficiency of the control equipment?	☐ Yes ☒ No (If Yes, attach and label manufacturer guarantee)		

	Pollutant Controlled					
	PM	PM10	SO_2	NOx	VOC	CO
Control Efficiency	0.02 gr/dscf	0.02 gr/dscf				

17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency. Equipment selected will meet above mentioned control efficiency

EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)

18. Actual Operation	8,760 HR/YR
19. Maximum Operation	8,760 hr/yr

REQUESTED LIMITS

20. Are you requesting any permit limits?	☐ Yes ☒ No (If Yes, check all that apply below)
☐ Operation Hour Limit(s):	
☐ Production Limit(s):	
☐ Material Usage Limit(s):	
☐ Limits Based on Stack Testing	Please attach all relevant stack testing summary reports
☐ Other:	
21. Rationale for Requesting the Limit(s):	

Emissions Unit - General **Form EU0**

DEQ AIR QUALITY PROGRAM
1410 N. Hilton, Boise, ID 83706
For assistance, call the
Air Permit Hotline – 1-877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION

Revision 3
03/27/07

Please see instructions on page 2 before filling out the form.

IDENTIFICATION

Company Name:	Facility Name:	Facility ID No:
Hoku Materials, Inc.	Polysilicon Plant	005-00058
Brief Project Description:	Construction of a 4,000 Mton/yr Polysilicon Production Facility	

EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION

1. Emissions Unit (EU) Name:	M.G. SILICON SECONDARY HOPPER
2. EU ID Number:	5
3. EU Type:	☐ New Source ☐ Unpermitted Existing Source ☒ Modification to a Permitted Source -- Previous Permit #:P-2007-0075 Date Issued: 8/14/07
4. Manufacturer:	TBD
5. Model:	TBD
6. Maximum Capacity:	20 CU. FT.
7. Date of Construction:	5/1/08
8. Date of Modification (if any)	MAY 1, 2008
9. Is this a Controlled Emission Unit?	☐ No ☒ Yes If Yes, complete the following section. If No, go to line 18.

EMISSIONS CONTROL EQUIPMENT

10. Control Equipment Name and ID:	M.G. Silicon Secondary Hopper Filter CE ID No:5		
11. Date of Installation:	5/1/08	12. Date of Modification (if any):	May 1, 2008
13. Manufacturer and Model Number:	TBD		
14. ID(s) of Emission Unit Controlled:	5- M.G. Silicon Secondary Hopper		
15. Is operating schedule different than emission units(s) involved?	☐ Yes ☒ No		
16. Does the manufacturer guarantee the control efficiency of the control equipment?	☐ Yes ☒ No (If Yes, attach and label manufacturer guarantee)		

	Pollutant Controlled					
	PM	PM10	SO_2	NOx	VOC	CO
Control Efficiency	0.02 gr/dscf	0.02 gr/dscf				

17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency. Equipment selected will meet above mentioned control efficiency

EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)

18. Actual Operation	8,760 HR/YR
19. Maximum Operation	8,760 hr/yr

REQUESTED LIMITS

20. Are you requesting any permit limits?	☐ Yes ☒ No (If Yes, check all that apply below)
☐ Operation Hour Limit(s):	
☐ Production Limit(s):	
☐ Material Usage Limit(s):	
☐ Limits Based on Stack Testing	Please attach all relevant stack testing summary reports
☐ Other:	
21. Rationale for Requesting the Limit(s):	

Emissions Units - Industrial Engine Information **Form EU1**

PERMIT TO CONSTRUCT APPLICATION

Revision 3
03/27/07

DEQ AIR QUALITY PROGRAM
1410 N. Hilton, Boise, ID 83706
For assistance, call the
Air Permit Hotline – 1-877-5PERMIT

Please see instructions on page 2 before filling out the form.

IDENTIFICATION		
Company Name: Hoku Materials, Inc.	Facility Name: Polysilicon Plant	Facility ID No: 005-00058
Brief Project Description:	Construction of a 4,000 Mton/yr Polysilicon Production Facility	

EXEMPTION

Please refer to IDAPA 58.01.01.222.01.c and d for a list of internal combustion engines that are exempt from the Permit to Construct requirements.

ENGINE (EMISSION UNIT) DESCRIPTION AND SPECIFICATIONS

1. Type of Unit: ☐ New Unit ☐ Unpermitted Existing Unit ☒ Modification to a Unit with Permit #:P-2007.0075 Date Issued: 8/14/07

2. Use of Engine: ☐ Normal Operation ☒ Emergency ☐ Back-up ☐ Other:

3. Engine ID Number:	4. Rated Power:	
EU ID11 Emergency Generator	☒ 800 Brake Horsepower(bhp) ☐ 3,500 Kilowatts(kW)	
5. Construction Date: May 1, 2008	6. Manufacturer: TBD	7. Model: TBD
8. Date of Modification (if applicable): May 1, 2008	9. Serial Number (if available): NA	10. Control Device (if any): NA

FUEL DESCRIPTION AND SPECIFICATIONS

11. Fuel Type	☒ Diesel Fuel (#) (gal/hr)	☐ Gasoline Fuel (gal/hr)	☐ Natural Gas (cf/hr)	☐ Other Fuels (unit:)
12. Full Load Consumption Rate	14.9			
13. Actual Consumption Rate	14.9			
14. Sulfur Content wt%	0.5%	N/A	N/A	

OPERATING LIMITS & SCHEDULE

15. Imposed Operating Limits (hours/year, or gallons fuel/year, etc.):

16. Operating Schedule (hours/day, months/year, etc.):

Emissions Units - Industrial Engine Information **Form EU1**

DEQ AIR QUALITY PROGRAM
1410 N. Hilton, Boise, ID 83706
For assistance, call the
Air Permit Hotline – 1-877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION

Revision 3
03/27/07

Please see instructions on page 2 before filling out the form.

IDENTIFICATION		
Company Name: Hoku Materials, Inc.	Facility Name: Polysilicon Plant	Facility ID No: 005-00058
Brief Project Description:	Construction of a 4,000 Mton/yr Polysilicon Production Facility	

EXEMPTION

Please refer to IDAPA 58.01.01.222.01.c and d for a list of internal combustion engines that are exempt from the Permit to Construct requirements.

ENGINE (EMISSION UNIT) DESCRIPTION AND SPECIFICATIONS

1. Type of Unit: ☐ New Unit ☐ Unpermitted Existing Unit ☒ Modification to a Unit with Permit #:P-2007.0075 Date Issued: 8/14/07

2. Use of Engine: ☐ Normal Operation ☒ Emergency ☐ Back-up ☐ Other:

3. Engine ID Number:	4. Rated Power:	
EU ID11 Emergency Generator	☐ Brake Horsepower(bhp)	☒ 3,500 Kilowatts(kW)
5. Construction Date: May 1, 2008	6. Manufacturer: TBD	7. Model: TBD
8. Date of Modification (if applicable): May 1, 2008	9. Serial Number (if available): NA	10. Control Device (if any): NA

FUEL DESCRIPTION AND SPECIFICATIONS

11. Fuel Type	☒ Diesel Fuel (#) (gal/hr)	☐ Gasoline Fuel (gal/hr)	☐ Natural Gas (cf/hr)	☐ Other Fuels (unit:)
12. Full Load Consumption Rate	87.2			
13. Actual Consumption Rate	87.2			
14. Sulfur Content wt%	0.5%	N/A	N/A	

OPERATING LIMITS & SCHEDULE

15. Imposed Operating Limits (hours/year, or gallons fuel/year, etc.):

16. Operating Schedule (hours/day, months/year, etc.):

Emissions Units - Cooling Towers Information **Form EU4**

PERMIT TO CONSTRUCT APPLICATION

Revision 3
04/02/07

DEQ AIR QUALITY PROGRAM
1410 N. Hilton, Boise, ID 83706
For assistance, call the
Air Permit Hotline – 1-877-5PERMIT

Please see instructions on page 3 before filling out the form.

IDENTIFICATION		
Company Name: Hoku Materials, Inc.	Facility Name: Polysilicon Plant	Facility ID No: 005-00058
Brief Project Description:	Construction of a 4,000 Mton/yr Polysilicon Production Facility	

COOLING TOWER IDENTIFICATION AND DESCRIPTION				
	Tower 1	Tower 2	Tower 3	Tower 4
1. Emission Unit Name	Colling Tower			
2. Emission Unit ID Number	7			
3. Stack/Vent ID Number	7			
4. Tower Type (N: New, U: Unpermitted, M: Modification)	☒ N, ☐ U, ☐ M	☐ N, ☐ U, ☐ M	☐ N, ☐ U, ☐ M	☐ N, ☐ U, ☐ M
5. Current Permit Number	P-2007.0075			
6. Tower Construction Date	August 14, 2007			
7. Tower Manufacturer	TBD			
8. Tower Model Number	TBD			
9. Number of Cells in Tower	6			
10. Tower Maximum Water Flow Rate	10,000 gpm/cell			
11. Measured TDS Content (if known)	12,000 ppm			
12. Do you use additives in the water? If Yes, provide an MSDS form for each additive	☐ No ☒ Yes	☐ No ☐ Yes	☐ No ☐ Yes	☐ No ☐ Yes
CONTROL EQUIPMENT INFORMATION				
13. Control Equipment	☐ No ☐ Yes	☐ No ☐ Yes	☐ No ☐ Yes	☐ No ☐ Yes
14. Control Equipment ID Number				
15. Control Equipment Efficiency				
OPERATING SCHEDULE				
16. Actual Operation (hours per year)	8,760			
17. Maximum Operation (hours per year)	8,760			

REQUEST FOR PERMIT LIMITATIONS

18. Are you requesting any permit limits? ☐ No ☐ Yes. If Yes, fill in all that apply below.

Tower Served	Operation Hour Limits:	TDS Limits (ppm):	Material Usage Limits:	Other:
Tower 1				
Tower 2				
Tower 3				
Tower 4				

19. Rationale for Requesting the

Limit(s):	

DEQ AIR QUALITY PROGRAM
1410 N. Hilton, Boise, ID 83706
For assistance, call the
Air Permit Hotline – 1-877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION

Revision 3
03/27/07

Please see instructions on page 3 before filling out the form.

IDENTIFICATION		
Company Name: Hoku Materials, Inc.	Facility Name: Polysilicon Plant	Facility ID No: 005-00058
Brief Project Description:	Construction of a 4,000 Mton/yr Polysilicon Production Facility	

EXEMPTION

Please see IDAPA 58.01.01.222 for a list of industrial boilers that are exempt from Permit to Construct requirements.

BOILER (EMISSION UNIT) DESCRIPTION AND SPECIFICATIONS

1. Type of Request: ☐ New Unit ☐ Unpermitted Existing Unit ☒ Modification to a Unit with Permit #:P-2007.0075

2. Use of Boiler: ☒ % Used For Process ☐ % Used For Space Heat ☐ % Used For Generating Electricity ☐ Other:

3. Boiler ID Number: EU ID 1	4. Rated Capacity: ☒ 55 Million British Thermal Units Per Hour (MMBtu/hr) ☐ 1,000 Pounds Steam Per Hour (1,000 lb steam/hr)	
5. Construction Date: May 1, 2008	6. Manufacturer: TBD	7. Model: TBD
8. Date of Modification (if applicable): NA	9. Serial Number (if available): NA	10. Control Device (if any): Na **Note: Attach applicable control equipment form(s)**

FUEL DESCRIPTION AND SPECIFICATIONS

11. Fuel Type	☐ Diesel Fuel (#) (gal/hr)	☒ Natural Gas (cf/hr)	☐ Coal (unit: /hr)	☐ Other Fuels (unit: /hr)
12. Full Load Consumption Rate		52,381		
13. Actual Consumption Rate		52,381		
14. Fuel Heat Content (Btu/unit, LHV)		1,050		
15. Sulfur Content wt%		NA		
16. Ash Content wt%		N/A		

STEAM DESCRIPTION AND SPECIFICATIONS

17. Steam Heat Content	NA	NA		
18. Steam Temperature (°F)	N/A	N/A		
19. Steam Pressure (psi)	N/A	N/A		
20. Steam Type	N/A	N/A	☐ Saturated ☐ Superheated	☐ Saturated ☐ Superheated

OPERATING LIMITS & SCHEDULE

21. Imposed Operating Limits (hours/year, or gallons fuel/year, etc.): NA
22. Operating Schedule (hours/day, months/year, etc.): 8,760 hr/yr

DEQ AIR QUALITY PROGRAM
1410 N. Hilton, Boise, ID 83706
For assistance, call the
Air Permit Hotline – 1-877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION

Revision 3
03/27/07

Please see instructions on page 3 before filling out the form.

IDENTIFICATION		
Company Name: Hoku Materials, Inc.	Facility Name: Polysilicon Plant	Facility ID No: 005-00058
Brief Project Description:	Construction of a 4,000 Mton/yr Polysilicon Production Facility	

EXEMPTION

Please see IDAPA 58.01.01.222 for a list of industrial boilers that are exempt from Permit to Construct requirements.

BOILER (EMISSION UNIT) DESCRIPTION AND SPECIFICATIONS

1. Type of Request: ☐ New Unit ☐ Unpermitted Existing Unit ☒ Modification to a Unit with Permit #:P-2007.0075

2. Use of Boiler: ☒ % Used For Process ☐ % Used For Space Heat ☐ % Used For Generating Electricity ☐ Other:

3. Boiler ID Number: EU ID 2- Hot Oil Heater	4. Rated Capacity: ☒ 55 Million British Thermal Units Per Hour (MMBtu/hr) ☐ 1,000 Pounds Steam Per Hour (1,000 lb steam/hr)	
5. Construction Date: May 1, 2008	6. Manufacturer: TBD	7. Model: TBD
8. Date of Modification (if applicable): NA	9. Serial Number (if available): NA	10. Control Device (if any): Na **Note: Attach applicable control equipment form(s)**

FUEL DESCRIPTION AND SPECIFICATIONS

11. Fuel Type	☐ Diesel Fuel (#) (gal/hr)	☒ Natural Gas (cf/hr)	☐ Coal (unit: /hr)	☐ Other Fuels (unit: /hr)
12. Full Load Consumption Rate		52,381		
13. Actual Consumption Rate		52,381		
14. Fuel Heat Content (Btu/unit, LHV)		1,050		
15. Sulfur Content wt%		NA		
16. Ash Content wt%		N/A		

STEAM DESCRIPTION AND SPECIFICATIONS

17. Steam Heat Content	NA	NA		
18. Steam Temperature (°F)	N/A	N/A		
19. Steam Pressure (psi)	N/A	N/A		
20. Steam Type	N/A	N/A	☐ Saturated ☐ Superheated	☐ Saturated ☐ Superheated

OPERATING LIMITS & SCHEDULE

21. Imposed Operating Limits (hours/year, or gallons fuel/year, etc.): NA
22. Operating Schedule (hours/day, months/year, etc.): 8,760 hr/yr

DEQ AIR QUALITY PROGRAM
1410 N. Hilton, Boise, ID 83706
For assistance, call the
Air Permit Hotline - 1-877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION

Please see instructions on page 2 before filling out the form.

Company Name:	**Hoku Materials, Inc**
Facility Name:	Polysilicon Plant
Facility ID No.:	005-00058
Brief Project Description:	Construction of a 4,000 Mton/yr Polysilicon Production Facility

SUMMARY OF AIR IMPACT ANALYSIS RESULTS - CRITERIA POLLUTANTS

		1.		2.	3.	4.		5.
Criteria Pollutants	**Averaging Period**	**Significant Impact Analysis Results (µg/m3)**	**Significant Contribution Level (µg/m3)**	**Full Impact Analysis Results (µg/m3)**	**Background Concentration (µg/m3)**	**Total Ambient Impact (µg/m3)**	**NAAQS (µg/m3)**	**Percent of NAAQS**
PM_{10}	24-hour		5	45.30	94.60	139.90	150	93%
	Annual		1	9.60	25.00	34.60	50	69%
SO_2	3-hr		25	86.30	34.00	120.30	1300	9%
	24-hr		5	24.90	26.00	50.90	365	14%
	Annual		1	0.50	8.00	8.50	80	11%
NO_2	Annual		1	8.20	32.00	40.20	100	40%
CO	1-hr		2000	464.00	5,000.00	5,464.00	40000	14%
	8-hr		500	136.00	2,000.00	2,136.00	10000	21%

DEQ AIR QUALITY PROGRAM
1410 N. Hilton, Boise, ID 83706
For assistance, call the
Air Permit Hotline - 1-877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION

Revision 3
3/27/2007

Please see instructions on page 2 before filling out the form.

Company Name:	**Hoku Materials, Inc**
Facility Name:	Polysilicon Plant
Facility ID No.:	005-00058
Brief Project Description:	Construction of a 4,000 Mton/yr Polysilicon Production Facility

POINT SOURCE STACK PARAMETERS

1.	2.	3a.	3b.	4.	5.	6.	7.	8.	9.	10.
Emissions units	**Stack ID**	**UTM Easting (m)**	**UTM Northing (m)**	**Base Elevation (m)**	**Stack Height (m)**	**Modeled Diameter (m)**	**Stack Exit Temperature (K)**	**Stack Exit Flowrate (acfm)**	**Stack Exit Velocity (m/s)**	**Stack orientation (e.g., horizontal, rain cap)**
Point Source(s)										
Boiler	1	377688.0	4750349.0	1353.6	6.1	0.91	478	20000	14.3	Horizontal
Hot Oil Heater	2	377679.0	4750356.0	1353.3	6.1	0.91	478	20000	14.3	Horizontal
M.G. Silicon Bin Vent	3	377463.0	4750554.0	1350.7	7.3	0.15	293	800	20.7	Horizontal
M.G. Silicon Primary Hopper	4	377460.0	4750520.8	1349.7	19.8	0.05	293	200	44.8	Horizontal
M.G. Silicon Secondary Hopper	5	377470.0	4750519.0	1350.0	18.3	0.05	293	150	33.6	Horizontal
Lime Storage Silo	6	378143.0	4750055.0	1353.0	6.1	0.30	293	1200	7.8	Horizontal
Cooling Tower 1	7	377558.5	4750476.0	1354.1	9.1	10.67	302		5.3	Horizontal
Cooling Tower 2	7	377566.0	4750487.5	1354.5	9.1	10.67	302		5.3	Horizontal
Cooling Tower 3	7	377574.0	4750500.0	1354.3	9.1	10.67	302		5.3	Horizontal
Laboratory Venting System	8	377923	4750113	1352.6	6.1	0.30	293	2600	16.8	Horizontal
Chlorosilane Venting System	9	377618	4750300	1352	8.2	0.36	293	3200	15.1	Horizontal
Relief Vent System	10	377646	4750273	1352.1	8.2	0.36	293	3200	15.1	Horizontal
Emergency Generator	11	377521	4750503	1352.4	7.9	0.61	700	21000	34.0	Horizontal
Fire Water Pump	12	378118	4750038	1353	6.1	0.30	700	4500	29.1	Horizontal
(insert more rows as needed)										

DEQ AIR QUALITY PROGRAM
1410 N. Hilton, Boise, ID 83706
For assistance, call the
Air Permit Hotline - 1-877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION

Revision 3
4/5/2007

Please see instructions on page 2 before filling out the form.

Company Name:	**Hoku Materials, Inc**
Facility Name:	Polysilicon Plant
Facility ID No.:	005-00058
Brief Project Description:	Construction of a 4,000 Mton/yr Polysilicon Production Facility

FUGITIVE SOURCE PARAMETERS

1.	2.	3a.	3b.	4.	5.	6.	7.	8.	9.	10.
Emissions units	**Stack ID**	**UTM Easting (m)**	**UTM Northing (m)**	**Base Elevation (m)**	**Release Height (m)**	**Easterly Length (m)**	**Northerly Length (m)**	**Angle from North (°)**	**Initial Vertical Dimension (m)**	**Initial Horizontal Dimension (m)**
Area Source(s)										
HCL from Valves	13	377,686	4,750,248	1,350.30	1.52	45.72	51.82	35.00	2.44	
Volume Source(s)										
(insert more rows as needed)										

	DEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706 For assistance, call the **Air Permit Hotline - 1-877-5PERMIT**	**PERMIT TO CONSTRUCT APPLICATION** Revision 3 4/5/2007

Please see instructions on page 2 before filling out the form.

Company Name:	**Hoku Materials, Inc**
Facility Name:	Polysilicon Plant
Facility ID No.:	005-00058
Brief Project Description:	Construction of a 4,000 Mton/yr Polysilicon Production Facility

BUILDING AND STRUCTURE INFORMATION

1.	2.	3.	4.	5.	6.	7.
Building ID Number	**Length (ft)**	**Width (ft)**	**Base Elevation (m)**	**Building Height (m)**	**Number of Tiers**	**Description/Comments**
POSTPROC	180.00	168.00	1354.00	3.6576	1	Post Processing Building
POLYROOM	200.00	100.00	1353.00	24.384	1	Poly Building
COOLTWOR	65.00	216.00	1353.00	9.144	1	Cooling Tower
DMWATER	103.00	148.00	1353.00	5.49	1	D.M. Water Building
SHIPWRHS	123.00	186.00	1353.00	6.096	1	Shipping Warehouse
PUMPHS12	44.00	79.00	1353.00	3.66	1	Pump House 1 and 2
WWTREAT	38.00	82.00	1353.00	3.66	1	Waste Water Treatment Building
SUPERSAC	72.00	56.00	1350.30	6.10	1	Super Sack Staging
GDHOUSE	50.00	23.00	1350.60	3.66	1	Guard House
MNTWRHS	138.00	79.00	1351.90	10.36	1	Maintenance and Warehouse
BLRBLDG	23.00	32.80	1353.20	5.49	1	
BRCHLLRS	60.00	72.00	1352.90	6.10	1	Brine Chillers
ADMIN	72.00	33.00	1349.92	22.86	1	Administration Building
LAB	115.00	66.00	1350.43	3.05	1	TCS Lab